

## (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
11 January 2001 (11.01.2001)

PCT

(10) International Publication Number  
**WO 01/03262 A1**

(51) International Patent Classification<sup>7</sup>: **H01S 5/0625,**  
5/068

(21) International Application Number: PCT/SE00/01320

(22) International Filing Date: 21 June 2000 (21.06.2000)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
9902604-9 6 July 1999 (06.07.1999) SE

(71) Applicant (for all designated States except US): **ALTI-**  
**TUN AB** [SE/SE]; Isafjordsgatan 9, S-164 40 Kista (SE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **BROBERG, Björn**  
[SE/SE]; Lokevägen 10, S-182 61 Djursholm (SE). **REN-**  
**LUND, Markus** [SE/SE]; Hjärnegatan 1, S-112 24 Stock-  
holm (SE).

(74) Agents: **ÖRTENBLAD, Bertil** et al.; Noréns Patentbyrå  
AB, Box 10198, S-100 55 Stockholm (SE).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

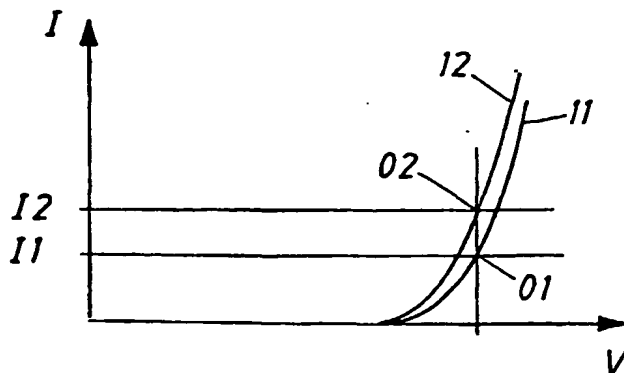
(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

## Published:

- With international search report.
- Before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments.

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: A METHOD AND ARRANGEMENT FOR CONTROLLING A TUNEABLE LASER



(57) Abstract: A method of controlling a tuneable laser that has been characterised with respect to one or more suitable laser operation points, where each of said operation points is determined by the manner in which the different laser sections (7-10) are controlled in order to operate the laser in a predetermined operation point. The invention is characterised by determining the voltage across the different laser sections (7-10) for different operation points when controlling said laser; and holding the voltage across the different laser sections (7-10) constant when the laser is in operation, such as to maintain a predetermined operation point.

WO 01/03262 A1

Abstract of the Disclosure

A method of controlling a tuneable laser that has been characterized with respect to one or more suitable laser operation points. Each operation point is determined by the manner in which the different laser sections are controlled, in order to operate the laser at a predetermined operation point. The voltage across the different laser sections is determined for different operation points when controlling the laser, and the voltages across the different laser sections are held constant when the laser is in operation to maintain a predetermined operation point.